

### IMPROVED SYNTHESIS OF ULTRA-LINGUISTIC UTTERANCES

Ultra-linguistic utterances are synthesised by voice synthesis apparatus of source-filter type in which the source module has been replaced by a source module comprising means for generating a succession of sound granule signals, the spectrum of  
 5 the sound granule signals being controlled according to states of cells of a cellular automaton in respective evolutionary cycles ( $c^n$ ).  
 (Fig.5)